



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

2003 DEC 17 AM 7:44

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MEMORANDUM

Date: December 12, 2003

Subject: Contract Laboratory Program Data Review

From: *Marvelyn Humphrey*, Marvelyn Humphrey, ESAT Regional PO, 6MD-HE

To: V. Malott, 6SF-AP

Site : JONES ROAD GROUND WATER PLUMECase#: 32292SDG# : F0PY3

The EPA Region 6 Houston Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative.

If you have any questions regarding the data review report, please call me at (281) 983-2140.

Attachments

cc: R. Flores, Region 6 CLP/TPO
M. El-Feky, Region 6 Data Coordinator
Files (2)



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**LOCKHEED MARTIN SERVICES GROUP
ESAT REGION 6
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099**

MEMORANDUM

DATE: December 11, 2003

TO: Marvelyn Humphrey, ESAT PO, Region 6

FROM: Tom C.H. Chiang, ESAT Program Manager, Region 6 *Jm (N. H.)*

SUBJECT: CLP Data Review

REF: TDF # 6-03-319A ESAT # O-0396
 ESAT Contract No. 68-W-01-030

Attached is the data review summary for Case #32292

SDG #F0PY3

Site Jones Road

Ground Water Plume

COMMENTS:

I. CONTRACTUAL ASSESSMENT OF THE DATA PACKAGE

The reviewer was unable to confirm a noncompliant method blank reported by CCS but found the following contractually noncompliant item that CCS was not expected to detect.

The data package was one working day late for the contractual seven-day turnaround requirement.

II. TECHNICAL USABILITY ASSESSMENT OF THE DATA PACKAGE

The total number of sample results reviewed was 950 for this data package. Some results were qualified for technical problems, and the significant problem is addressed below.

Some DMC recoveries were below the QC limits for samples F0PY4, F0PZ1, F0QC8, F0QD1, F0Q19, F0Q21, and F0Q78.

III. OTHER AREA OF CONCERN

The airbill numbers were not recorded on the OTR/COC Records.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099

ORGANIC REGIONAL DATA ASSESSMENT

CASE NO.	32292	SITE	Jones Road	Ground Water Plume
LABORATORY	A4	NO. OF SAMPLES	19	
CONTRACT#	68-W-01-038	MATRIX	Water	
SDG#	F0PY3	REVIEWER (IF NOT ESB)	ESAT	
SOW#	OLC03.2	REVIEWER'S NAME	Mike Fertitta	
ACCT#	450102DJN08	COMPLETION DATE	December 11, 2003	
SF#	50102DNK			

SAMPLE NO.	F0PY3	F0PZ1	F0QD2	F0Q20	F0Q27
	F0PY4	F0PZ2	F0Q08	F0Q21	F0Q77
	F0PY5	F0QC8	F0Q09	F0Q25	F0Q78
	F0PZ0	F0QD1	F0Q19	F0Q26	

DATA ASSESSMENT SUMMARY

VOA

1. HOLDING TIMES	O
2. GC/MS TUNE/INSTR. PERFORM.	O
3. CALIBRATIONS	O
4. BLANKS	O
5. DMC/SURROGATES	M
6. MATRIX SPIKE/DUPLICATE/LCS	O
7. OTHER QC	M
8. INTERNAL STANDARDS	O
9. COMPOUND ID/QUANTITATION	O
10. PERFORMANCE/COMPLETENESS	O
11. OVERALL ASSESSMENT	M

O = Data had no problems.

M = Data qualified due to major or minor problems.

Z = Data unacceptable.

NA = Not applicable.

ACTION ITEMS: The data package was one working day late for the contractual seven-day turnaround requirement.

AREA OF CONCERN: Some DMC recoveries were below the QC limits for samples F0PY4, F0PZ1, F0QC8, F0QD1, F0Q19, F0Q21, and F0Q78. Tetrachloroethene results were inconsistent for one field duplicate pair.

NOTABLE PERFORMANCE:

**COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW**

CASE 32292 SDG F0PY3 SITE Jones Road Ground Water Plume LAB A4

The following is a summary of sample qualifiers used by Region 6 in reporting this CLP data:

<u>No.</u>	<u>Acceptable</u>	<u>Provisional</u>	<u>Unacceptable</u>
VOA	11	8	

COMMENTS: This SDG, contracted under Low Concentration SOW OLC03.2, consisted of 19 water samples for VOA analysis. The sampler designated sample F0Q77 as the laboratory QC sample, sample F0QC8 as a trip blank, and samples F0QD1 and F0QD2 as field blanks. Field blank sample F0QD0 in SDG F0Q07 was also associated with the samples in this SDG. The RSCC verified that samples F0PY3, F0Q09, F0Q25, and F0Q78 were field duplicates of samples F0QD5, F0QD7, F0QD6, and F0QD4, respectively, from SDG F0Q07. The data package was contractually compliant except that it arrived one working day late for the contractual seven-day turnaround requirement.

The TDF requested that this package be reviewed at level 2 review with the exception of the data for the target compounds of concern which were reviewed using level 3 (full) review. The target compounds of concern were vinyl chloride, cis-1,2-dichloroethene, trichloroethene, and tetrachloroethene with desired detection limits at the SOW CRQL's. All samples met the desired detection limit criteria. Samples F0PY3, F0PZ0, F0Q08, F0Q19, and F0Q25 contained cis-1,2-dichloroethene, trichloroethene, and/or tetrachloroethene at concentrations above the desired detection limits. The only target compounds not designated as compounds of concern that were detected at concentrations above the CRQL's were methylcyclohexane and 1,2-dichloropropane in sample F0PY5. DMC recoveries were below the QC limits for samples F0PY4, F0PZ1, F0QC8, F0QD1, F0Q19, F0Q21, and F0Q78.

Some results were provisional for eight samples because of problems with DMC performance or field duplicate precision. The technical usability of all reported results is indicated by ESAT's final data qualifiers in the Data Summary Table (DST). An Evidence Audit was conducted for the Complete Sample Delivery Group File (CSF), and the audit results were reported on the Evidence Inventory Checklist.

NOTE: THE FOLLOWING REVIEW NARRATIVE ADDRESSES BOTH CONTRACTUAL ISSUES (BASED ON THE STATEMENT OF WORK) AND TECHNICAL ISSUES (BASED ON THE NATIONAL FUNCTIONAL GUIDELINES). THE ASSESSMENT MADE FOR EACH QC PARAMETER IS SOLELY BASED ON THE TECHNICAL DATA USABILITY, WHICH MAY NOT NECESSARILY BE AFFECTED BY CONTRACTUAL PROBLEMS. THE ASSESSMENTS ARE DEFINED BELOW.

**ORGANIC QA REVIEW
CONTINUATION PAGE**

CASE 32292 SDG F0PY3 SITE Jones Road Ground Water Plume LAB A4

Acceptable = No results were qualified for any problem associated with this QC parameter.
Provisional = Some results were qualified because of problems associated with this QC parameter.
Unusable = All results are unusable because of major problems associated with this QC parameter.

1. Holding Times: Acceptable. The samples were analyzed within the contractual and technical holding time limits, and pH values indicated that the samples were preserved with acid.

NOTE: Polymerization of vinyl chloride and styrene is likely to occur in acid-preserved samples and could cause low biased results for these analytes.

2. Tuning/Performance: Acceptable. BFB analyses met GC/MS tuning criteria.

3. Calibrations: Acceptable. Target analytes met contractual calibration criteria. Several analytes failed the technical %RSD and/or %D calibration criteria but were not detected in the associated samples, so qualification of these analyte results was not required per Region 6 guidelines.

4. Blanks: Acceptable. The method and storage blanks met the contractual QC guidelines and were free from contamination.

Trip and Field Blanks: Field blank sample F0QD0 from SDG F0Q07 contained an acetone concentration below the CRQL. Because of this field contamination, the acetone result below the CRQL for sample F0PY5 should be considered undetected and was flagged "U" at the CRQL on the DST. The other trip and field blanks were free from contamination.

5. Deuterated Monitoring Compounds (DMC's)/Surrogates:
Provisional. DMC performance met the contractual QC criteria for every analysis. Although contractually acceptable, up to three DMC's had recoveries outside of the QC limits for every analysis except those of the laboratory blanks. Because DMC recoveries were below the QC limits, the reviewer qualified results for the following analytes as estimated and biased low:

analytes associated with VDMC9 and VDMC10 for sample F0QC8 and

analytes associated with VDMC10 and VDMC12 for samples F0PY4, F0PZ1, F0QD1, F0Q19, F0Q21, and F0Q78.

**ORGANIC QA REVIEW
CONTINUATION PAGE**

CASE 32292 SDG F0PY3 SITE Jones Road Ground Water Plume LAB A4

The DMC recoveries below the QC limits for the MS and MSD samples were not associated with the spike analytes. The other outlying DMC recoveries were marginally outside the QC limits or were above the QC limits with undetected sample results for the associated analytes. Therefore, no other result qualification was necessary.

6. Matrix Spike/Matrix Spike Duplicate/Laboratory Control Sample (MS/MSD/LCS): Acceptable. The RPD's exceeded the QC limits for all spike analytes. The spike analytes were not detected in the native sample, so qualification of results was not required per Region 6 guidelines. The MS/MSD results met the QC criteria for %recovery.

7. Other QC:

Field Duplicates: Provisional. The results were inconsistent for cis-1,2-dichloroethene and tetrachloroethene in field duplicate samples F0PY3 and F0QD5 (SDG F0Q07) and for methyl tert-butyl ether in field duplicate samples F0Q25 and F0QD6 (SDG F0Q07). The reviewer qualified as estimated the tetrachloroethene result for sample F0PY3, but the results for cis-1,2-dichloroethene in sample F0PY3 and for methyl tert-butyl ether in sample F0Q25 were below the CRQL's and already "J"-flagged. The qualification of results for samples F0QD5 and F0QD6 were discussed in the review report for SDG F0Q07. All results were consistent for the other field duplicate pairs.

8. Internal Standards (IS): Acceptable. IS performance was acceptable for all analyses.

9. Compound Identity (ID)/Quantitation: Acceptable. Samples F0PY3, F0PY5, F0PZ0, F0Q08, F0Q19, and F0Q25 contained cis-1,2-dichloroethene, trichloroethene, methylcyclohexane, 1,2-dichloropropane, and/or tetrachloroethene at concentrations above the CRQL's. All reported sample results met compound identification criteria.

10. Performance/Completeness: Acceptable. A laboratory response to the CCS report was received and included at the beginning of the data package. The diskette deliverable was retained at the Region 6 laboratory. The data package was complete. The laboratory was contacted concerning some reporting errors (see FAX Record Log). The laboratory response to the Regional request is not expected to affect the DST.

ORGANIC QA REVIEW
CONTINUATION PAGE

CASE 32292 SDG F0PY3 SITE Jones Road Ground Water Plume LAB A4

11. Overall Assessment: Eleven samples were acceptable. Samples F0PY3, F0PY4, F0PZ1, F0QC8, F0QD1, F0Q19, F0Q21, and F0Q78 were provisional because some results were qualified for problems with DMC performance or field duplicate precision.

HEADER DEFINITIONS FOR ORGANIC EXCEL DST

CASE: Case Number
SDG: SDG Number
EPASAMP: EPA Sample Number
LABID: Laboratory File/Sample ID
MATRIX: Sample Matrix
ANDATE: Sample Analysis Date
ANTIME: Sample Analysis Time
CASNUM: Compound CAS Number
ANALYTE: Compound Name
CONC: Compound Concentration
LABQUAL: Laboratory Qualifier
UNITS: Concentration Units
ADJCRQL: Adjusted Contract Required Quantitation Limit Value
CRQLLBL: Contract Required Quantitation Limit Label
SMPDATE: Sampling Date
VALDQAL: Region 6 Organic Data Validation Qualifier (see Organic Data Qualifier Definitions on the next page)
STATLOC: Station Location

Disclaimer: ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, and VALDQAL. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.

ORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

- U** Not detected at reported quantitation limit.
- N** Identification is tentative.
- J** Estimated value.
- L** Reported concentration is below the CRQL.
- M** Reported concentration should be used as a raised quantitation limit because of interferences and/or laboratory contamination.
- R** Unusable.
- ^** High biased. Actual concentration may be lower than the concentration reported.
- v** Low biased. Actual concentration may be higher than the concentration reported.
- F+** A false positive exists.
- F-** A false negative exists.
- B** This result may be high biased because of laboratory/field contamination. The reported concentration is above 5X or 10X the concentration reported in the method/field blank.
- UJ** Estimated quantitation limit.
- T** Identification is questionable because of absence of other commonly coexisting pesticides.
- *** Result not recommended for use because of associated QA/QC performance inferior to that from other analysis.
- W** The result should be used with caution. The result was reported on a dry weight basis although the sample did not conform to the EPA Office of Water definition of a soil sample because of its high water content (>70% moisture).

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	LABQUAL	UNITS	ADJCRLQ	CRQLLBL	SMPDATE	VALDQAL	STATLOC
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	75718	Dichlorodifluoromethane	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	74873	Chloromethane	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	75014	Vinyl Chloride	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	74839	Bromomethane	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	75003	Chloroethane	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	75694	Trichlorofluoromethane	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	75354	1,1-Dichloroethene	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	76131	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	67641	Acetone	5.0	U	UG/L	5.0	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	75150	Carbon Disulfide	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	79209	Methyl Acetate	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	75092	Methylene Chloride	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	156605	trans-1,2-Dichloroethene	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	1634044	Methyl tert-Butyl Ether	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	75343	1,1-Dichloroethane	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	156592	cis-1,2-Dichloroethene	0.44	J	UG/L	0.50		LJ		FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	78933	2-Butanone	5.0	U	UG/L	5.0	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	74975	Bromochloromethane	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	67663	Chlorform	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	71556	1,1,1-Trichloroethane	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	110827	Cyclohexane	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	56235	Carbon Tetrachloride	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	71432	Benzene	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	107062	1,2-Dichloroethane	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	79016	Trichloroethene	0.15	J	UG/L	0.50		LJ		FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	108872	Methylcyclohexane	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	78875	1,2-Dichloropropane	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	75274	Bromodichloromethane	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	10061015	cis-1,3-Dichloropropene	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	108101	4-Methyl-2-pentanone	5.0	U	UG/L	5.0	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	108883	Toluene	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	10061026	trans-1,3-Dichloropropene	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	79005	1,1,2-Trichloroethane	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	127184	Tetrachloroethene	2.6		UG/L	0.50		J		FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	591786	2-Hexanone	5.0	U	UG/L	5.0	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	124481	Dibromochloromethane	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	106934	1,2-Dibromoethane	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	108907	Chlorobenzene	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	100414	Ethylbenzene	0.50	U	UG/L	0.50	U	11/10/2003	U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	1330207	Xylenes (total)	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	100425	Styrene	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	75252	Bromoform	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	98828	Isopropylbenzene	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	79345	1,1,2-Tetrachloroethane	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	541731	1,3-Dichlorobenzene	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	106467	1,4-Dichlorobenzene	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	95501	1,2-Dichlorobenzene	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	96128	1,2-Dibromo-3-chloropropane	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	120821	1,2,4-Trichlorobenzene	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY3	E6788	W	11/1/2003	14:45	87616	1,2,3-Trichlorobenzene	0.50	U	UG/L	0.50	U		U	FV11130-1
32292	FOPY3	FOPY4	F2536	W	11/1/2003	15:33	75718	Dichlorodifluoromethane	0.50	U	UG/L	0.50	U		U	FV11130-2
32292	FOPY3	FOPY4	F2536	W	11/1/2003	15:33	74873	Chloromethane	0.19	J	UG/L	0.50		LJ		FV11130-2
32292	FOPY3	FOPY4	F2536	W	11/1/2003	15:33	75014	Vinyl Chloride	0.50	U	UG/L	0.50	U		U	FV11130-2
32292	FOPY3	FOPY4	F2536	W	11/1/2003	15:33	74839	Bromomethane	0.50	U	UG/L	0.50	U		U	FV11130-2
32292	FOPY3	FOPY4	F2536	W	11/1/2003	15:33	75003	Chloroethane	0.50	U	UG/L	0.50	U		U	FV11130-2
32292	FOPY3	FOPY4	F2536	W	11/1/2003	15:33	75694	Trichlorofluoromethane	0.50	U	UG/L	0.50	U		U	FV11130-2
32292	FOPY3	FOPY4	F2536	W	11/1/2003	15:33	75354	1,1-Dichloroethene	0.50	U	UG/L	0.50	U		U	FV11130-2
32292	FOPY3	FOPY4	F2536	W	11/1/2003	15:33	76131	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	UG/L	0.50	U		U	FV11130-2
32292	FOPY3	FOPY4	F2536	W	11/1/2003	15:33	67641	Acetone	5.0	U	UG/L	5.0	U		U	FV11130-2
32292	FOPY3	FOPY4	F2536	W	11/1/2003	15:33	75150	Carbon Disulfide	0.50	U	UG/L	0.50	U		U	FV11130-2

32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	67641	Acetone	5.0	U	UG/L	5.0	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	75150	Carbon Disulfide	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	79209	Methyl Acetate	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	75092	Methylene Chloride	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	156605	trans-1,2-Dichloroethene	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	1634044	Methyl tert-Butyl Ether	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	75343	cis-1,2-Dichloroethene	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	156592	cis-1,2-Dichloroethene	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	78933	2-Butanone	5.0	U	UG/L	5.0	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	74975	Bromochloromethane	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	67663	Chloroform	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	71556	1,1,1-Trichloroethane	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	110827	Cyclohexane	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	56235	Carbon Tetrachloride	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	71432	Benzene	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	107062	1,2-Dichloroethane	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	79016	Trichloroethene	0.50	U	UG/L	0.50	U	UJv	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	108872	Methylcyclohexane	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	78875	1,2-Dichloropropane	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	75274	Bromodichloromethane	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	10061015	cis-1,3-Dichloropropene	0.50	U	UG/L	0.50	U	UJv	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	108101	4-Methyl-2-pentanone	5.0	U	UG/L	5.0	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	108883	Toluene	0.50	U	UG/L	0.50	U	UJv	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	10061026	trans-1,3-Dichloropropene	0.50	U	UG/L	0.50	U	UJv	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	79005	1,1,2-Trichloroethane	0.50	U	UG/L	0.50	U	UJv	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	127184	Tetrachloroethene	0.50	U	UG/L	0.50	U	UJv	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	591786	2-Hexanone	5.0	U	UG/L	5.0	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	124481	Dibromochloromethane	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	106934	1,2-Dibromoethane	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	108897	Chlorobenzene	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	100414	Ethylbenzene	0.50	U	UG/L	0.50	U	11/10/2003	UJv	TRIP BLANK 2
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	1330207	Xylenes (total)	0.50	U	UG/L	0.50	U	UJv	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	100425	Styrene	0.50	U	UG/L	0.50	U	UJv	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	75252	Bromoform	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	98828	Isopropylbenzene	0.50	U	UG/L	0.50	U	UJv	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	79345	1,1,2-Tetrachloroethane	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	541731	1,3-Dichlorobenzene	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	106467	1,4-Dichlorobenzene	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	95501	1,2-Dichlorobenzene	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	96128	1,2-Dibromo-3-chloropropane	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	120821	1,2,4-Trichlorobenzene	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QC8	E6786	W	11/11/2003	12:37	87616	1,2,3-Trichlorobenzene	0.50	U	UG/L	0.50	U	U	TRIP BLANK 2	
32292	F0PY3	F0QD1	F2534	W	11/11/2003	12:29	75718	Dichlorodifluoromethane	0.50	U	UG/L	0.50	U	U	FIELD BLANK	
32292	F0PY3	F0QD1	F2534	W	11/11/2003	12:29	74873	Chloromethane	0.50	U	UG/L	0.50	U	U	FIELD BLANK	
32292	F0PY3	F0QD1	F2534	W	11/11/2003	12:29	75014	Vinyl Chloride	0.50	U	UG/L	0.50	U	U	FIELD BLANK	
32292	F0PY3	F0QD1	F2534	W	11/11/2003	12:29	74839	Bromomethane	0.50	U	UG/L	0.50	U	U	FIELD BLANK	
32292	F0PY3	F0QD1	F2534	W	11/11/2003	12:29	75003	Chloroethane	0.50	U	UG/L	0.50	U	U	FIELD BLANK	
32292	F0PY3	F0QD1	F2534	W	11/11/2003	12:29	75694	Trichlorofluoromethane	0.50	U	UG/L	0.50	U	U	FIELD BLANK	
32292	F0PY3	F0QD1	F2534	W	11/11/2003	12:29	75354	1,1-Dichloroethene	0.50	U	UG/L	0.50	U	U	FIELD BLANK	
32292	F0PY3	F0QD1	F2534	W	11/11/2003	12:29	76131	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	UG/L	0.50	U	U	FIELD BLANK	
32292	F0PY3	F0QD1	F2534	W	11/11/2003	12:29	67641	Acetone	5.0	U	UG/L	5.0	U	U	FIELD BLANK	
32292	F0PY3	F0QD1	F2534	W	11/11/2003	12:29	75150	Carbon Disulfide	0.50	U	UG/L	0.50	U	U	FIELD BLANK	
32292	F0PY3	F0QD1	F2534	W	11/11/2003	12:29	79209	Methyl Acetate	0.50	U	UG/L	0.50	U	U	FIELD BLANK	
32292	F0PY3	F0QD1	F2534	W	11/11/2003	12:29	75092	Methylene Chloride	0.50	U	UG/L	0.50	U	U	FIELD BLANK	
32292	F0PY3	F0QD1	F2534	W	11/11/2003	12:29	156605	trans-1,2-Dichloroethene	0.50	U	UG/L	0.50	U	U	FIELD BLANK	
32292	F0PY3	F0QD1	F2534	W	11/11/2003	12:29	1634044	Methyl tert-Butyl Ether	0.50	U	UG/L	0.50	U	U	FIELD BLANK	
32292	F0PY3	F0QD1	F2534	W	11/11/2003	12:29	75343	1,1-Dichloroethane	0.50	U	UG/L	0.50	U	U	FIELD BLANK	
32292	F0PY3	F0QD1	F2534	W	11/11/2003	12:29	156592	cis-1,2-Dichloroethene	0.50	U	UG/L	0.50	U	U	FIELD BLANK	
32292	F0PY3	F0QD1	F2534	W	11/11/2003	12:29	76933	2-Butanone	5.0	U	UG/L	5.0	U	U	FIELD BLANK	
32292	F0PY3	F0QD1	F2534	W	11/11/2003	12:29	74975	Bromochloromethane	0.50	U	UG/L	0.50	U	U	FIELD BLANK	
32292	F0PY3	F0QD1	F2534	W	11/11/2003	12:29	67663	Chloroform	0.50	U	UG/L	0.50	U	U	FIELD BLANK	
32292	F0PY3	F0QD1	F2534	W	11/11/2003	12:29	71556	1,1,1-Trichloroethane	0.50	U	UG/L	0.50	U	U	FIELD BLANK	

32292	F0PY3	F0Q78	F2535	W	11/11/2003	14:29	10061015	cis-1,3-Dichloropropene	0.50	U	UG/L	0.50	U	UJv	WE10727
32292	F0PY3	F0Q78	F2535	W	11/11/2003	14:29	108101	4-Methyl-2-pentanone	5.0	U	UG/L	5.0	U	U	WE10727
32292	F0PY3	F0Q78	F2535	W	11/11/2003	14:29	108883	Toluene	0.50	U	UG/L	0.50	U	U	WE10727
32292	F0PY3	F0Q78	F2535	W	11/11/2003	14:29	10061026	trans-1,3-Dichloropropene	0.50	U	UG/L	0.50	U	UJv	WE10727
32292	F0PY3	F0Q78	F2535	W	11/11/2003	14:29	79005	1,1,2-Trichloroethane	0.50	U	UG/L	0.50	U	UJv	WE10727
32292	F0PY3	F0Q78	F2535	W	11/11/2003	14:29	127184	Tetrachloroethene	0.50	U	UG/L	0.50	U	U	WE10727
32292	F0PY3	F0Q78	F2535	W	11/11/2003	14:29	591786	2-Hexanone	5.0	U	UG/L	5.0	U	U	WE10727
32292	F0PY3	F0Q78	F2535	W	11/11/2003	14:29	124481	Dibromochloromethane	0.50	U	UG/L	0.50	U	UJv	WE10727
32292	F0PY3	F0Q78	F2535	W	11/11/2003	14:29	106934	1,2-Dibromoethane	0.50	U	UG/L	0.50	U	UJv	WE10727
32292	F0PY3	F0Q78	F2535	W	11/11/2003	14:29	108907	Chlorobenzene	0.50	U	UG/L	0.50	U	U	WE10727
32292	F0PY3	F0Q78	F2535	W	11/11/2003	14:29	100414	Ethylbenzene	0.50	U	UG/L	0.50	U	11/10/2003	WE10727
32292	F0PY3	F0Q78	F2535	W	11/11/2003	14:29	1330207	Xylenes (total)	0.50	U	UG/L	0.50	U	U	WE10727
32292	F0PY3	F0Q78	F2535	W	11/11/2003	14:29	100425	Styrene	0.50	U	UG/L	0.50	U	U	WE10727
32292	F0PY3	F0Q78	F2535	W	11/11/2003	14:29	75252	Bromoform	0.50	U	UG/L	0.50	U	UJv	WE10727
32292	F0PY3	F0Q78	F2535	W	11/11/2003	14:29	98828	Isopropylbenzene	0.50	U	UG/L	0.50	U	U	WE10727
32292	F0PY3	F0Q78	F2535	W	11/11/2003	14:29	79345	1,1,2,2-Tetrachloroethane	0.50	U	UG/L	0.50	U	U	WE10727
32292	F0PY3	F0Q78	F2535	W	11/11/2003	14:29	541731	1,3-Dichlorobenzene	0.50	U	UG/L	0.50	U	U	WE10727
32292	F0PY3	F0Q78	F2535	W	11/11/2003	14:29	106467	1,4-Dichlorobenzene	0.50	U	UG/L	0.50	U	U	WE10727
32292	F0PY3	F0Q78	F2535	W	11/11/2003	14:29	95501	1,2-Dichlorobenzene	0.50	U	UG/L	0.50	U	U	WE10727
32292	F0PY3	F0Q78	F2535	W	11/11/2003	14:29	95128	1,2-Dibromo-3-chloropropane	0.50	U	UG/L	0.50	U	U	WE10727
32292	F0PY3	F0Q78	F2535	W	11/11/2003	14:29	120821	1,2,4-Trichlorobenzene	0.50	U	UG/L	0.50	U	U	WE10727
32292	F0PY3	F0Q78	F2535	W	11/11/2003	14:29	87616	1,2,3-Trichlorobenzene	0.50	U	UG/L	0.50	U	U	WE10727

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No.	32292	SDG No.	F0PY3	SDG Nos. To Follow	SAS No.	Date Rec	11/19/03																																																																																																																								
EPA Lab ID: <u>A4</u> Lab Location: <u>The Woodlands, TX</u> Region: <u>6</u> Audit No.: <u>32292/F0PY3</u> Re_Submitted CSF? Yes _____ No <u>X</u> Box No(s): <u>1</u> COMMENTS: 3 The reviewer made a minor correction to the pagination listed on Form DC-2-4.				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;">ORIGINALS</th> <th style="width: 10%;">YES</th> <th style="width: 10%;">NO</th> <th style="width: 10%;">N/A</th> </tr> </thead> <tbody> <tr> <td colspan="4">CUSTODY SEALS</td> </tr> <tr> <td>1. Present on package?</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>2. Intact upon receipt?</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td colspan="4">FORM DC-2</td> </tr> <tr> <td>3. Numbering scheme accurate?</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>4. Are enclosed documents listed?</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>5. Are listed documents enclosed?</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td colspan="4">FORM DC-1</td> </tr> <tr> <td>6. Present?</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>7. Complete?</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>8. Accurate?</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td colspan="4">CHAIN-OF-CUSTODY RECORD(s)</td> </tr> <tr> <td>9. Signed?</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>10. Dated?</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td colspan="4">TRAFFIC REPORT(s) PACKING LIST(s)</td> </tr> <tr> <td>11. Signed?</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>12. Dated?</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td colspan="4">AIRBILLS/AIRBILL STICKER</td> </tr> <tr> <td>13. Present?</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>14. Signed?</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>15. Dated?</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td colspan="4">SAMPLE TAGS</td> </tr> <tr> <td>16. Does DC-1 list tags as being included?</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>17. Present?</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td colspan="4">OTHER DOCUMENTS</td> </tr> <tr> <td>18. Complete?</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>19. Legible?</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>20. Original?</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>20a.If "NO", does the copy indicate where original documents are located?</td> <td>X</td> <td></td> <td></td> </tr> </tbody> </table>				ORIGINALS	YES	NO	N/A	CUSTODY SEALS				1. Present on package?	X			2. Intact upon receipt?	X			FORM DC-2				3. Numbering scheme accurate?		X		4. Are enclosed documents listed?	X			5. Are listed documents enclosed?	X			FORM DC-1				6. Present?	X			7. Complete?	X			8. Accurate?	X			CHAIN-OF-CUSTODY RECORD(s)				9. Signed?	X			10. Dated?	X			TRAFFIC REPORT(s) PACKING LIST(s)				11. Signed?	X			12. Dated?	X			AIRBILLS/AIRBILL STICKER				13. Present?	X			14. Signed?	X			15. Dated?	X			SAMPLE TAGS				16. Does DC-1 list tags as being included?	X			17. Present?	X			OTHER DOCUMENTS				18. Complete?	X			19. Legible?	X			20. Original?		X		20a.If "NO", does the copy indicate where original documents are located?	X		
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Audited by: Linda Hoffman
 Audited by: _____
 Audited by: _____

Linda Hoffman / ESAT Data Reviewer
 Date 12/05/03

Signature

Printed Name/Title

<u>TO BE COMPLETED BY CEAT</u>		
Date Recvd by CEAT:	Date Entered:	Date Reviewed:
Entered by:	_____	_____
Reviewed by:	_____	_____
Signature	Printed Name/Title	

DC-2

In Reference To Case No(s):
32292 SDG: F0PY3 (O-0396)

**Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM**

FAX Record Log

Laboratory Name: A4
Lab Contact: Vinod Gaddam

Region: 6
Regional Contact: Mahmoud El-Feky - EPA
ESAT Reviewer: Michael J. Fertitta - ESAT

FAX initiated by: Laboratory Region

In reference to data for the following fractions:

VOA

Summary of Questions/Issues:

1. 11/13/03 BFB injection at 0927 on instrument E-5973: The background scan responses (page 340) were not subtracted from the average responses for m/e 96 or m/e 177 (page 336). Raw abundances should be 340 and 287, respectively, not 390 and 349, respectively. Percent relative abundances for 96/95 and 177/176 should be 7.1 and 7.3, respectively, not 8.1 and 8.9, respectively (page 16). Please verify the raw and percent relative abundances in question and submit the necessary corrections.

2. Sample F0Q77MSD, Forms 3 and 1 (pages 9 and 417): Based on the raw data (page 418), the toluene and chlorobenzene concentrations should be 4.5 $\mu\text{g}/\text{L}$, not 4.6 $\mu\text{g}/\text{L}$. Therefore, the RPD's on Form 3 should be 16 and 14, respectively, and both RPD's should be "*" flagged. Please correct and resubmit pages 9 and 417.

NOTE: Any laboratory resubmission should be submitted either as an addendum to the original CSF with a revised Form DC-2 or submitted as a new CSF with a new Form DC-2 (OLC03.2, B-36, 2.6.3). Custody seals are required for all such shipments.

FAX COMMUNICATION LOG

Continuation Page: 2
Laboratory/Contact: A4/Vinod Gaddam
In Reference to Case No. 32292 **SDG:** F0PY3

Please respond to the above items within 7 days to:

Mr. Mahmoud El-Feky
U.S. EPA Region 6 Laboratory
10625 Fallstone Road
Houston, TX 77099

If you have any questions, please contact me at (281) 983-2128.

Mawelyn Hamphrey 12/11/03
Signature Date

Distribution: (1) Lab Copy, (2) Region Copy, and (3) ESAT Copy

